

Figure 1: Web service interface for a service named “GetStockQuote”

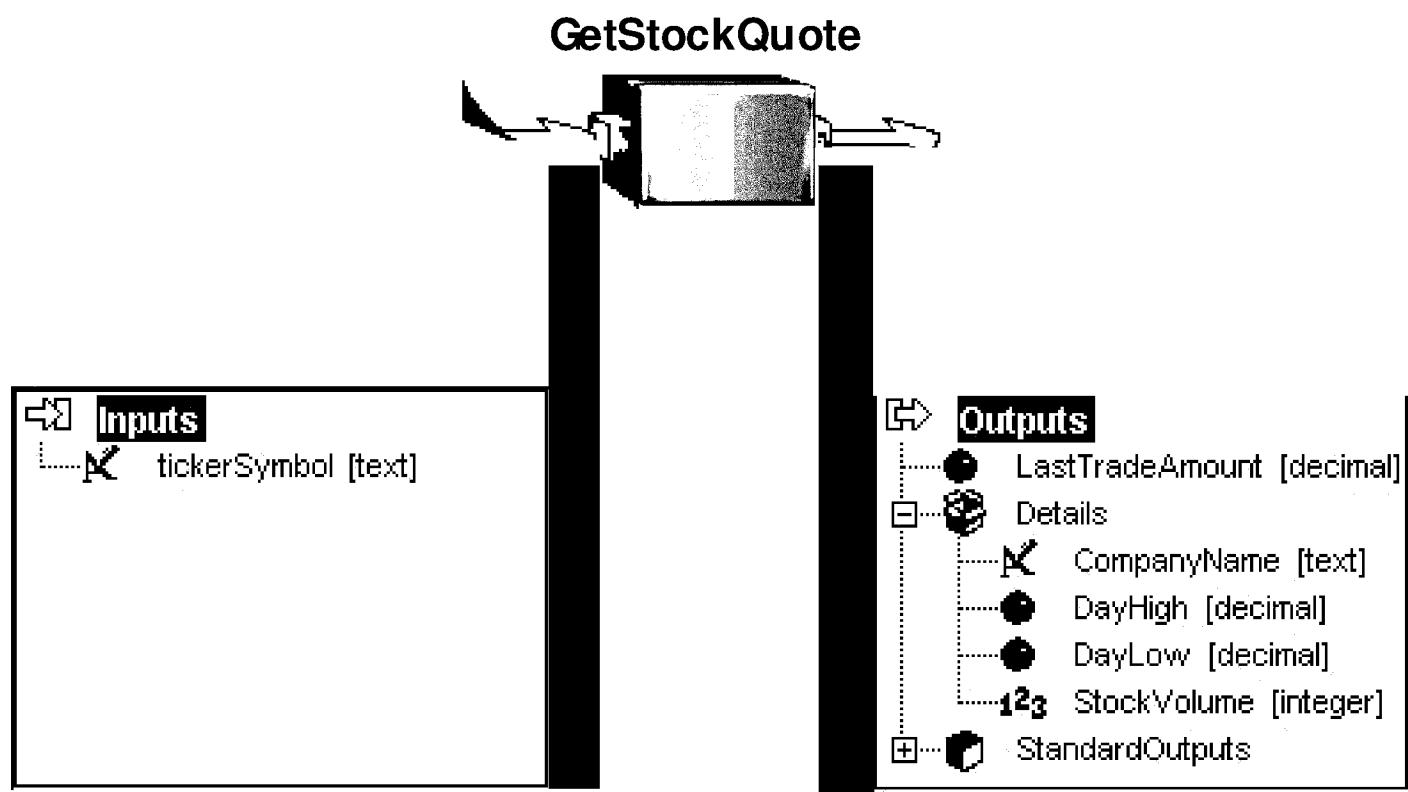


Figure 2: Composite model implementation

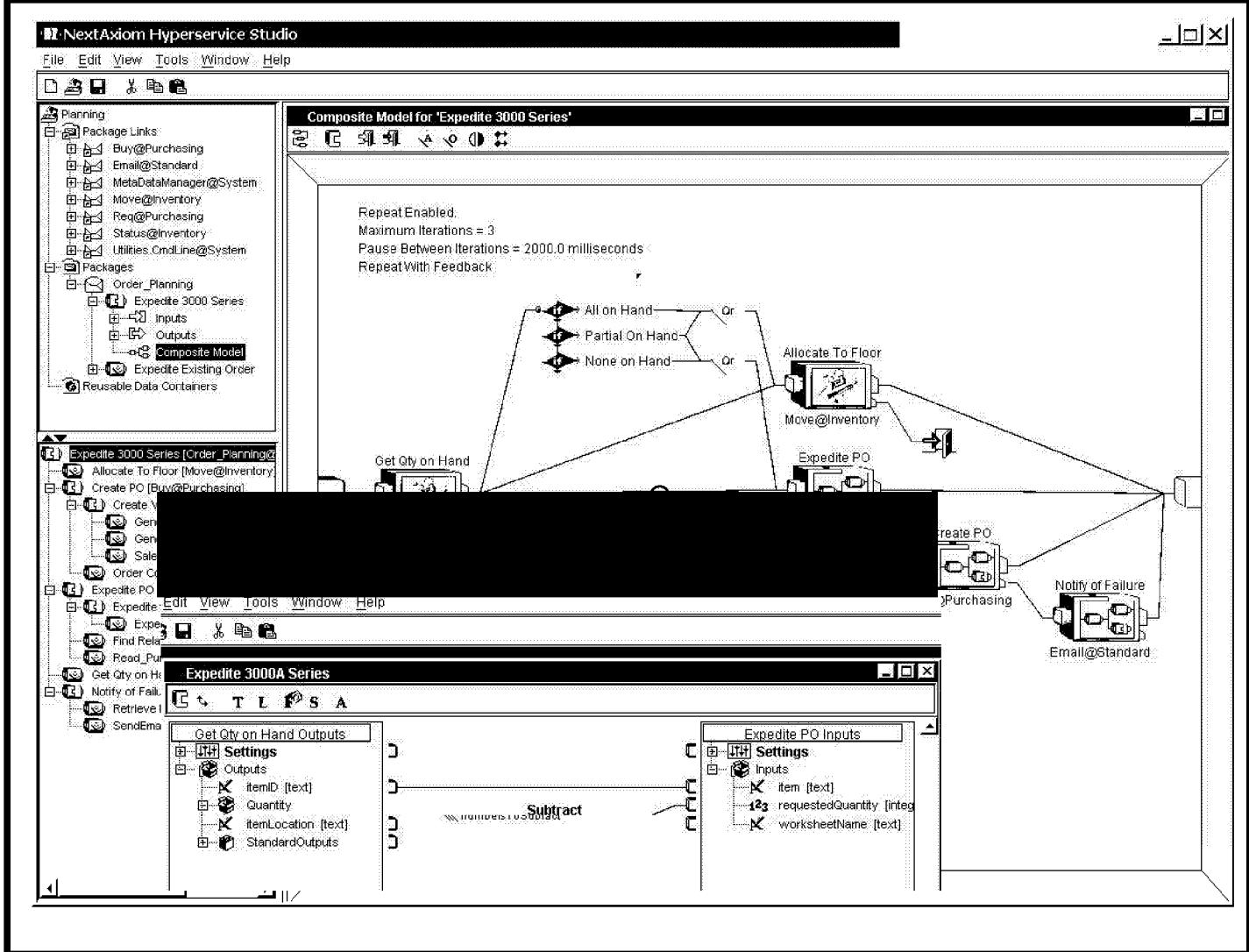


Figure 3: Composite Service

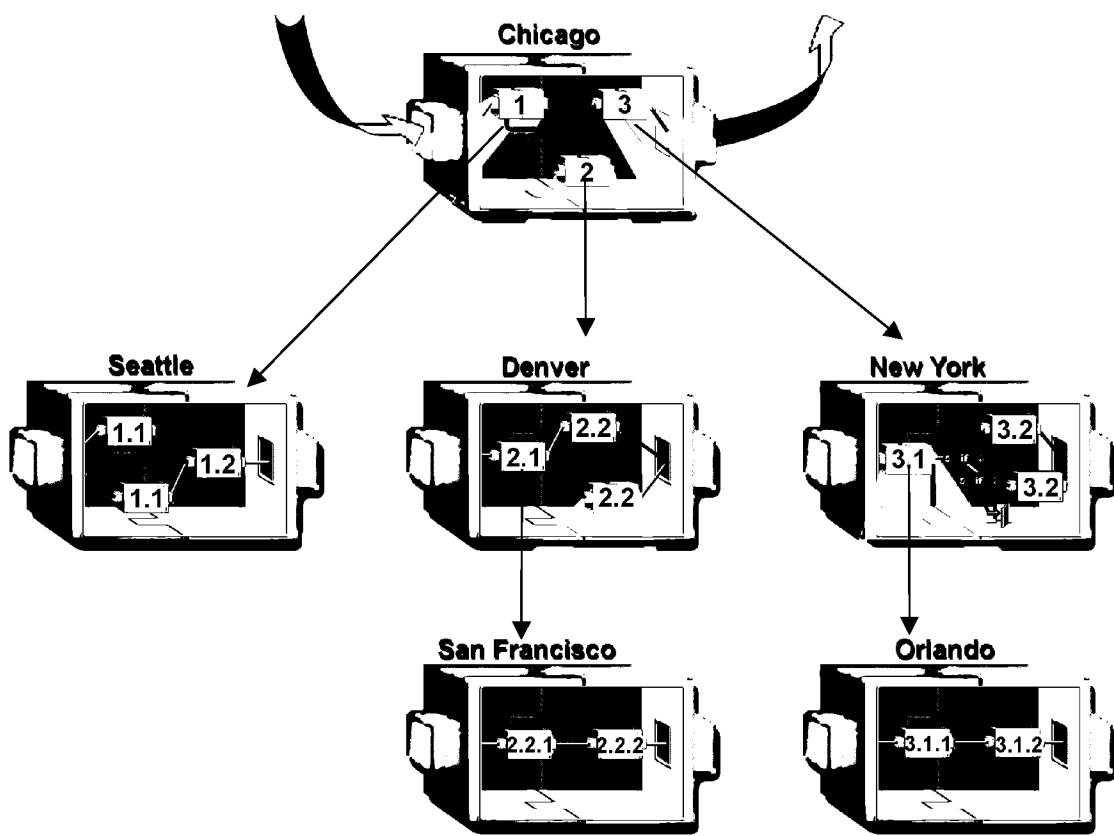
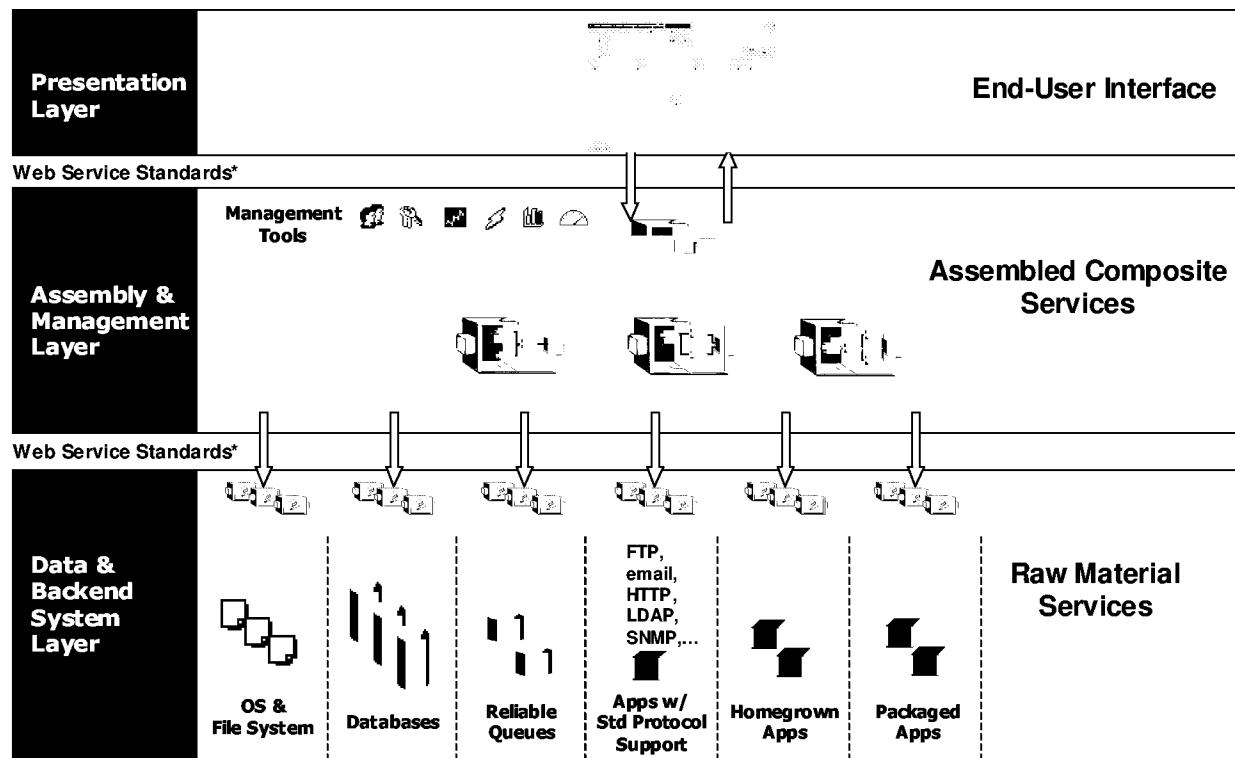


Figure 4: Service-Oriented Application Architecture



*or similar interface, consumption, and discovery protocols

Figure 5a: Log Analyzer – Graphical User Interface (GUI) calls composite services

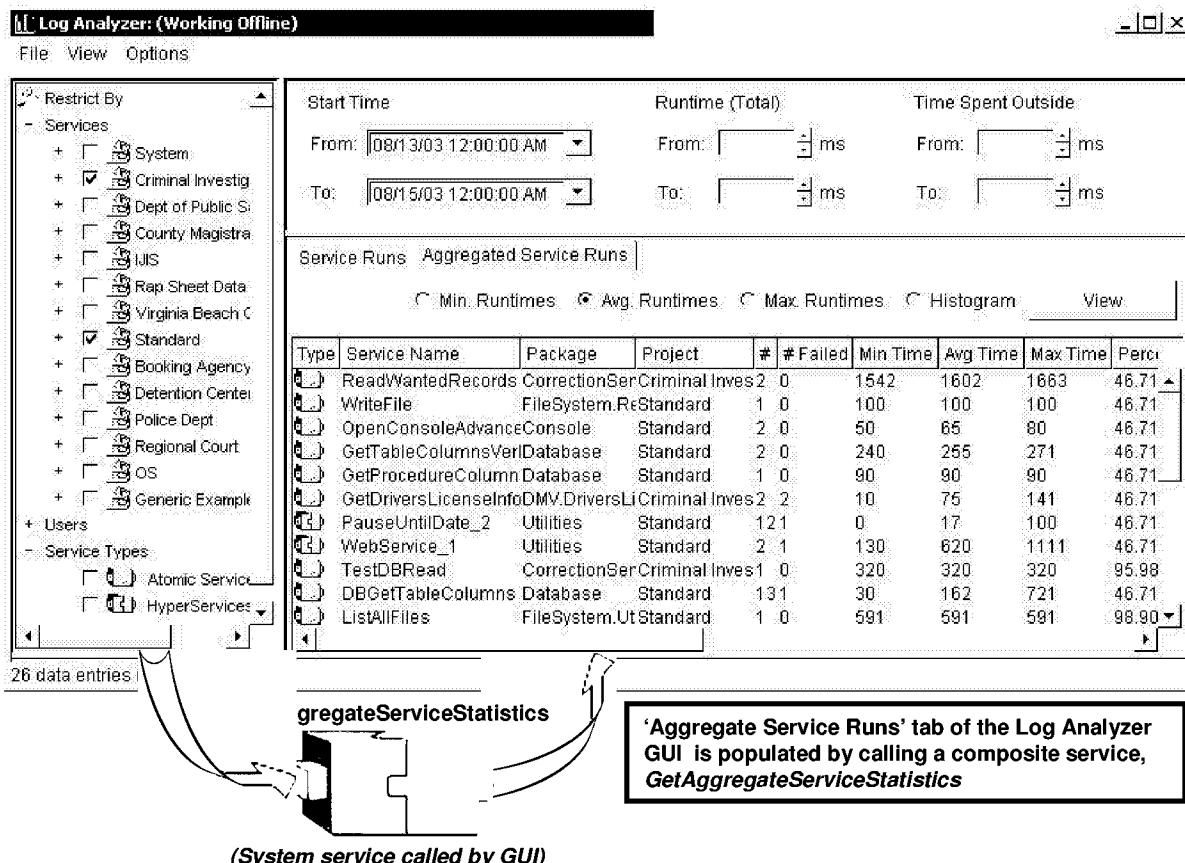


Figure 5b: Log Analyzer – GetAggregateServiceStatistics, an example composite service called by the GUI

GetAggregateServiceStatistics is a composite service that consumes other services:
CalculateServiceStatistics, *CalcStdDeviation*, & *CalculatePercentile*

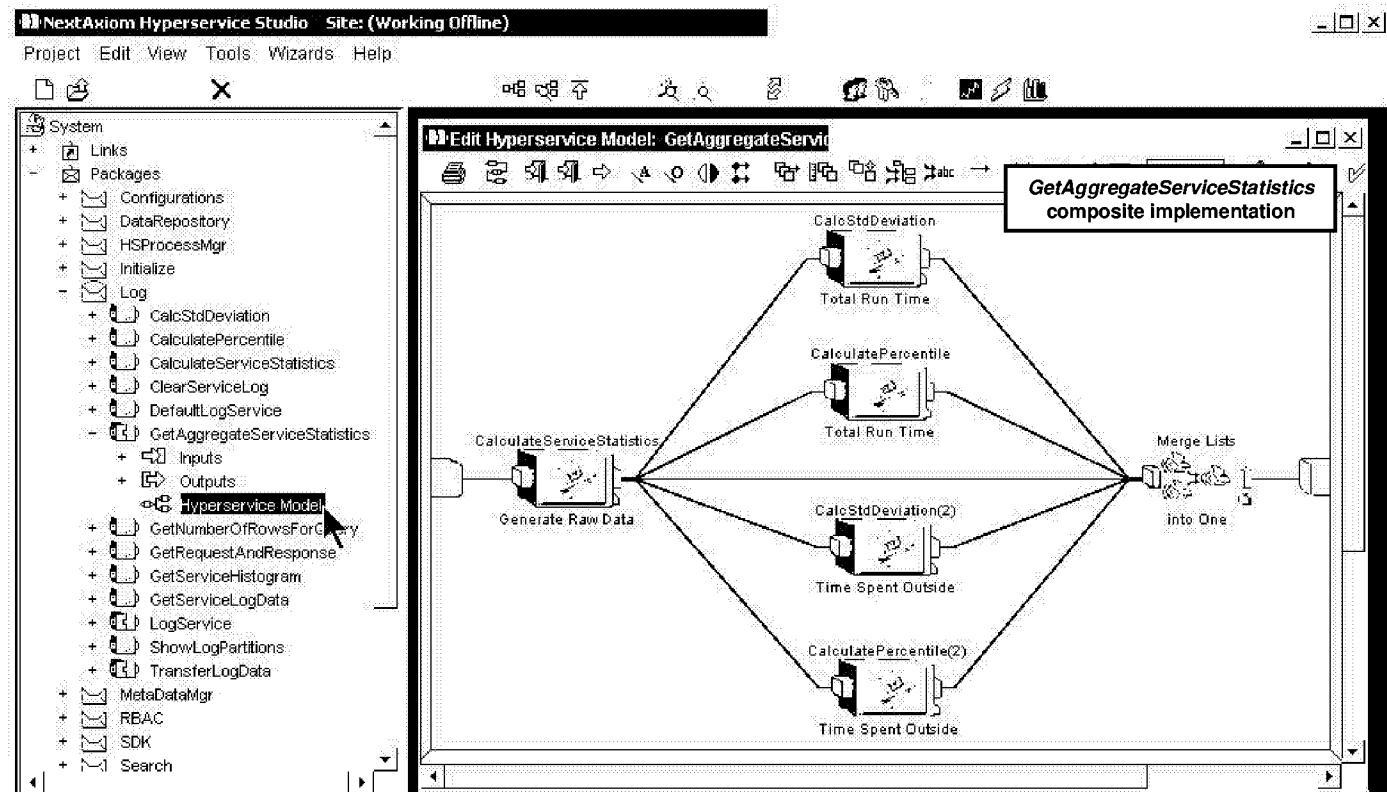


Figure 6: Services used for Metadata Management

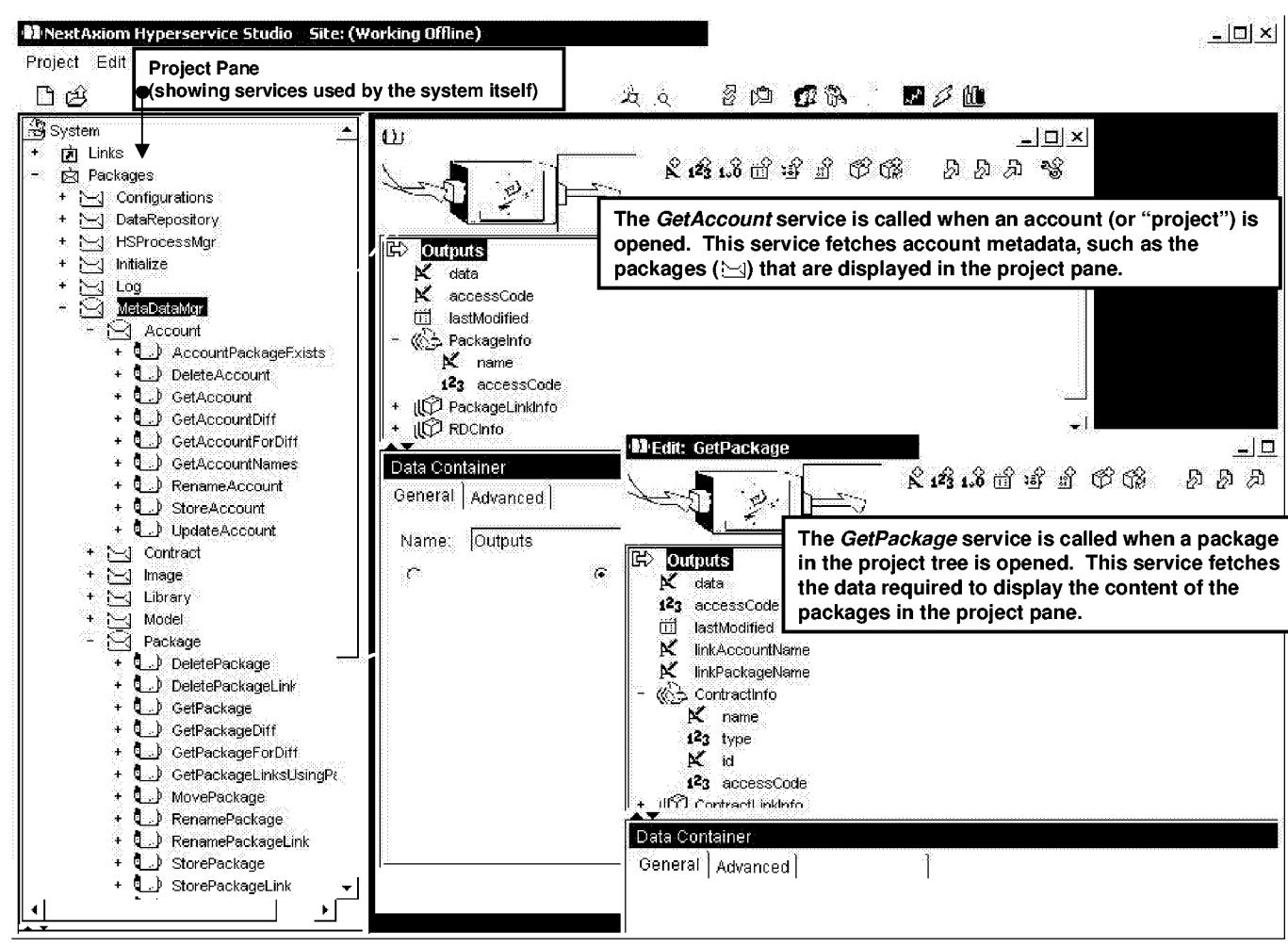


Figure 7a: 'Search for Web Services' GUI – calls System services

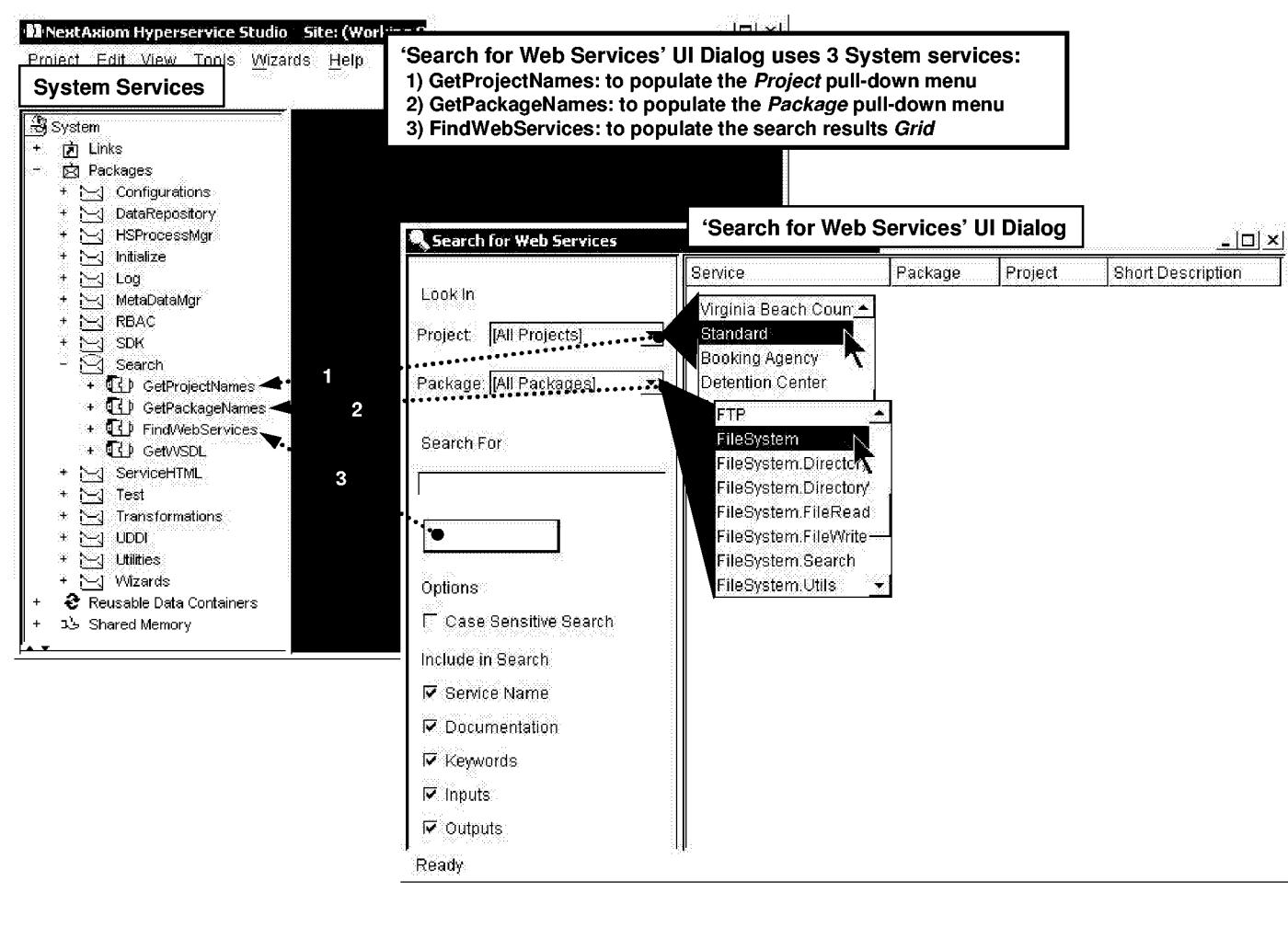


Figure 7b: ‘Search for Web Services’ GUI – using ‘FindWebServices’ composite service

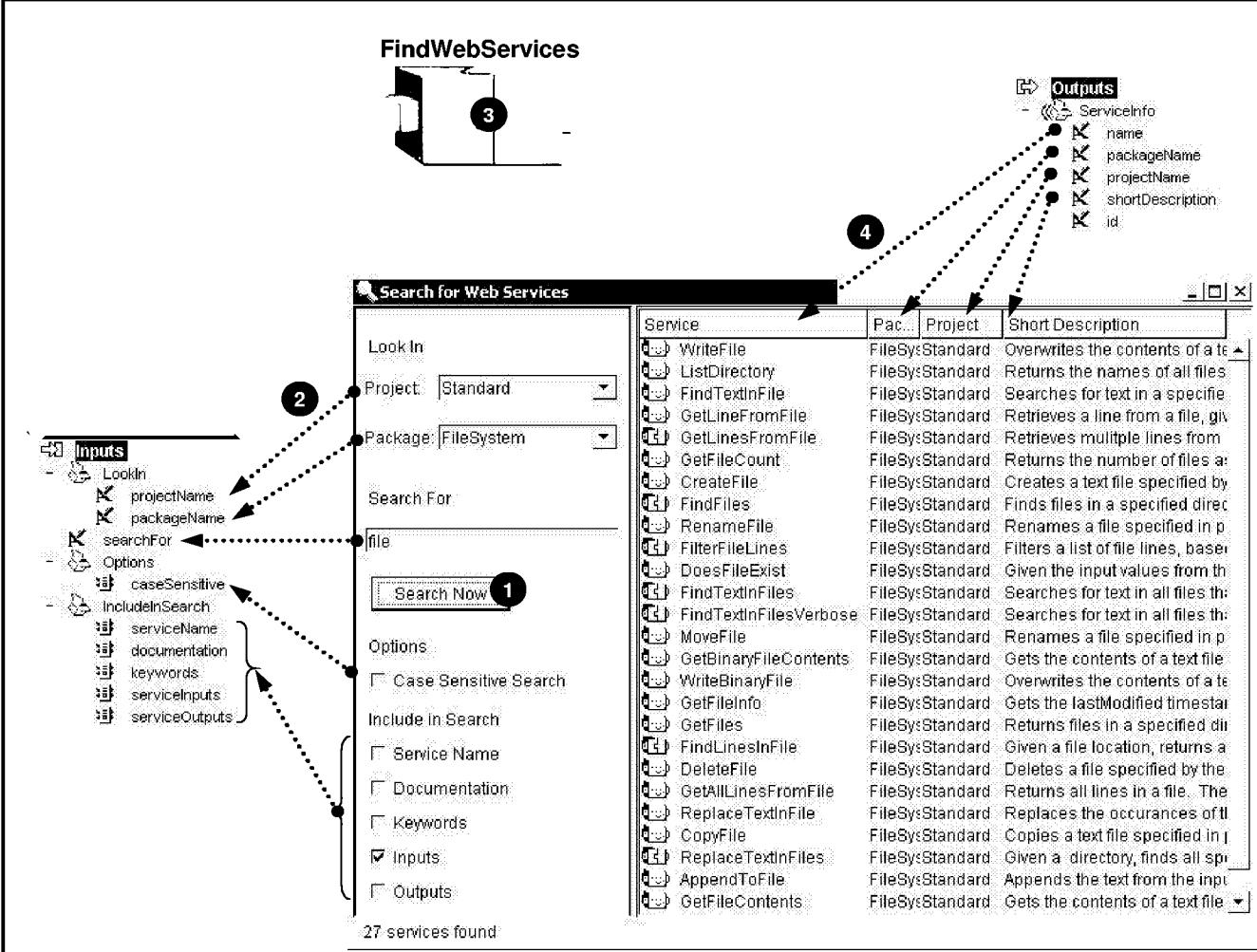
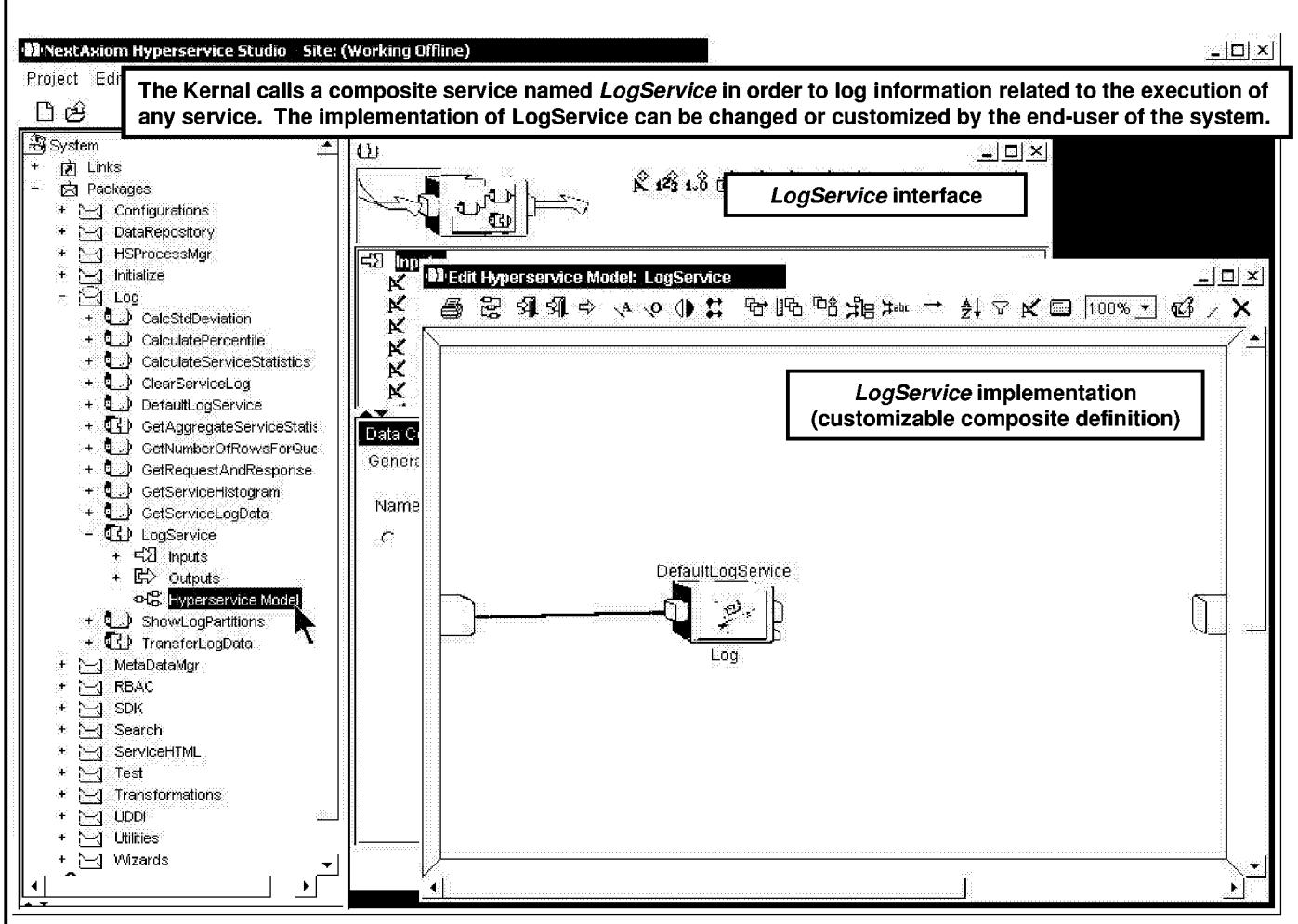


Figure 8: Logging Service Execution – Kernel calls a customizable composite service



**LogService implementation
(customizable composite definition)**



Figure 9a: Services provided for Service Process Monitoring & Management

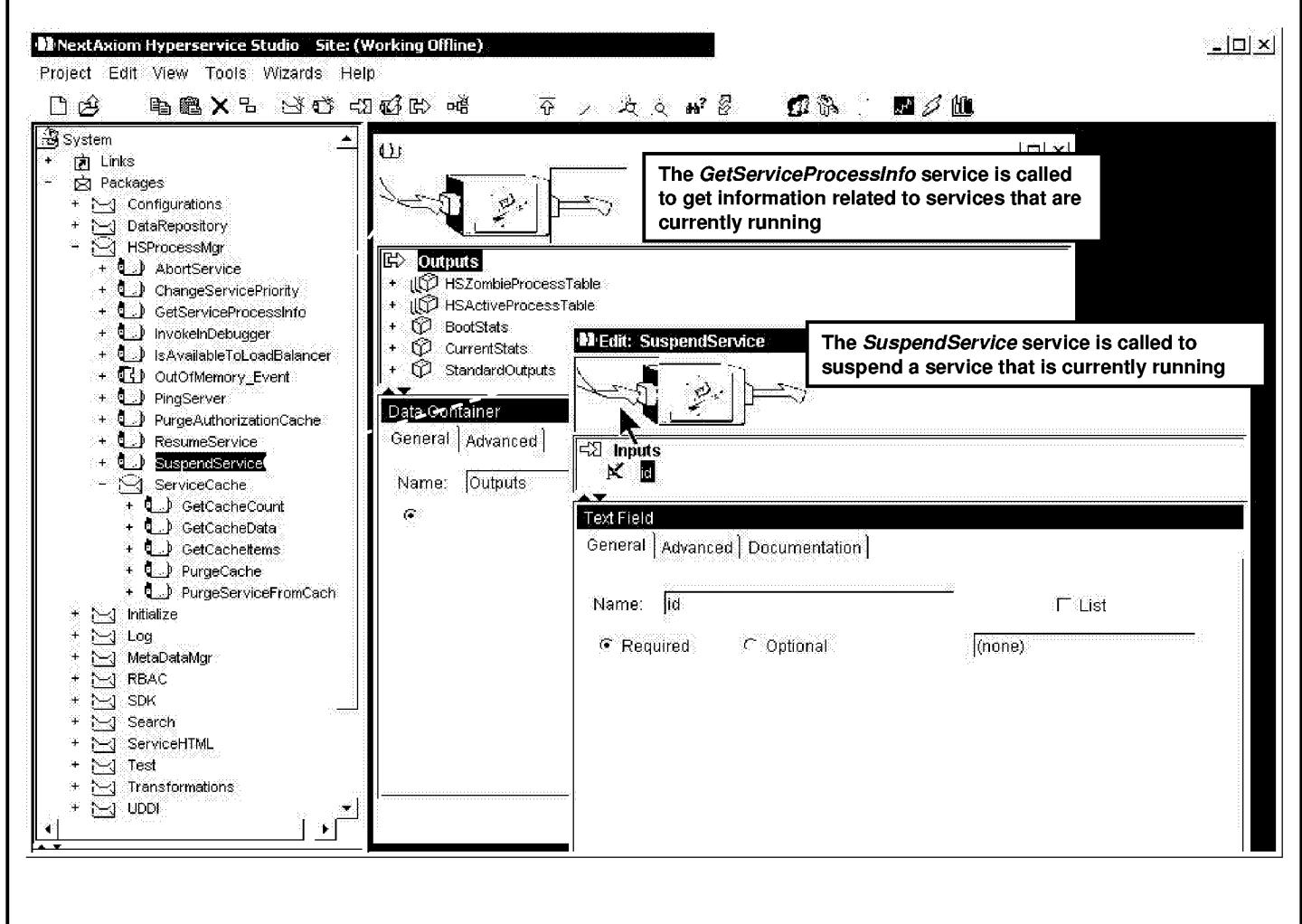


Figure 9b: 'Web Service Task Manager' GUI – calls Process Monitoring & Management services

The screenshot displays two windows of the 'Web Service Task Manager' application.

Left Window: Processes Grid

This window shows a grid of processes. A context menu is open over the third row, with the 'Request Pause' option highlighted. A callout box points to this option with the text: "When the 'Request Pause' right-click menu item is selected, the SuspendService service is called to suspend the selected service".

Type	Root Process	Service Name	Status	Elapsed Time	Start Time	Package Na
false	Request Abort		Running	50.452	Wed Sep 03 21:25:46	Utilities
false	Change Priority		Running	46.787	Wed Sep 03 21:25:50	Utilities
true	Request Pause		Running	41.258	Wed Sep 03 21:25:55	Utilities
true	CompileRapSh	Running	60.286			
false						
true						

A callout box on the left side of the grid states: "The 'Processes' grid is populated by calling the GetServiceProcessInfo service".

Right Window: Active Processes Chart

This window displays a step chart showing the number of active processes over time. The Y-axis ranges from 0 to 10. The X-axis represents time. The chart shows a series of steps that increase and then plateau. A slider at the top allows users to "Update Speed: Faster" or "Slower".

Current number of processes awaiting abort: 0

Figure 10a: Services provided for Service Cache Management

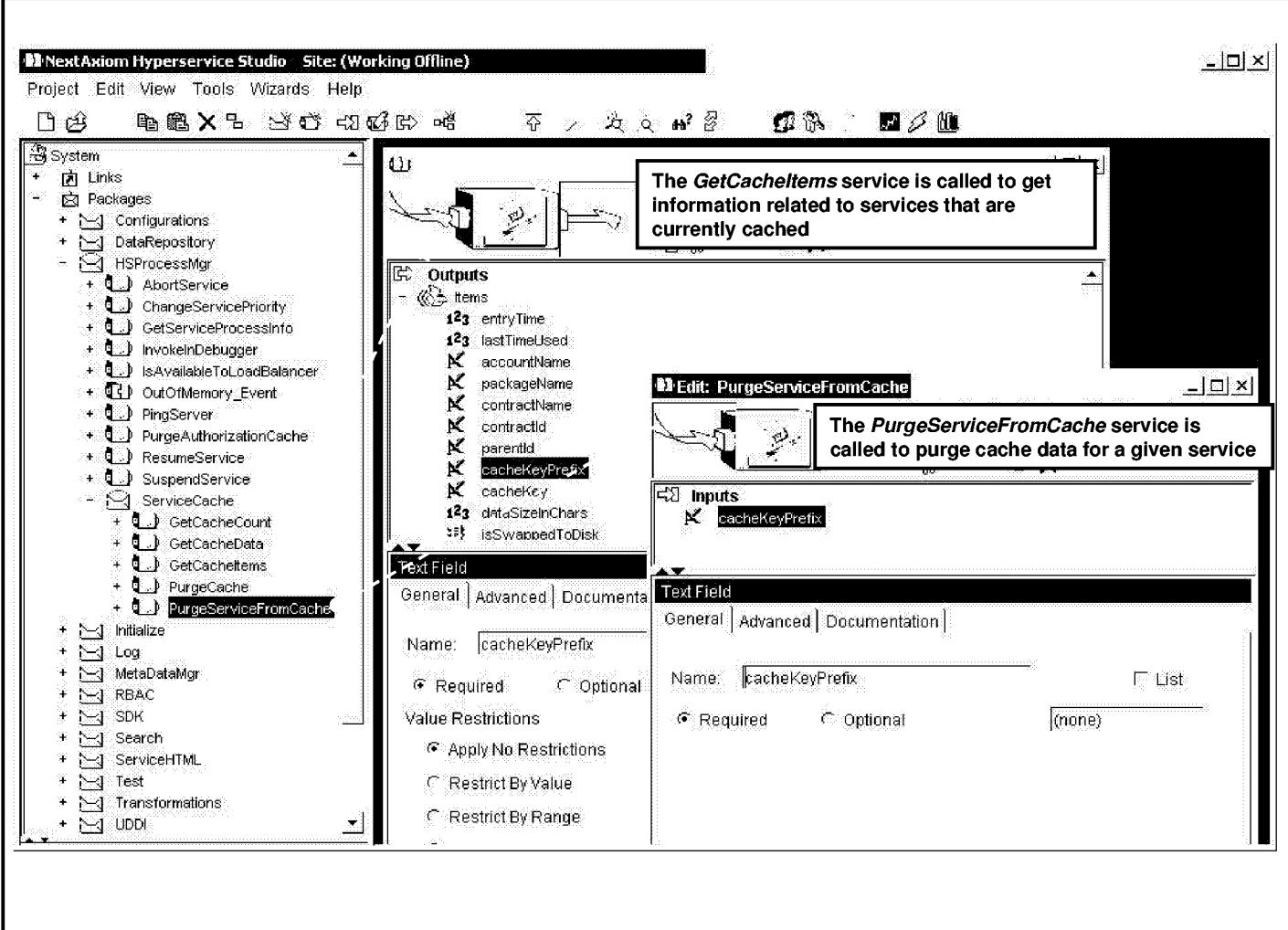


Figure 10b: 'Web Service Cache Manager' GUI – calls Cache Management services

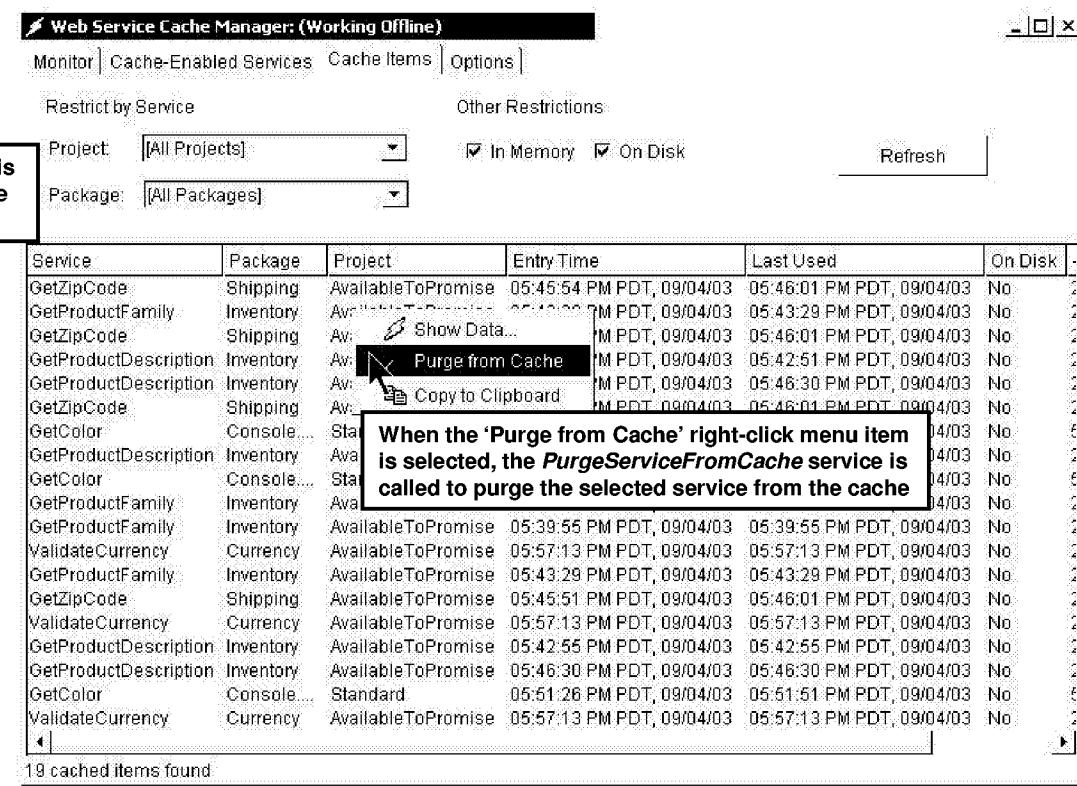
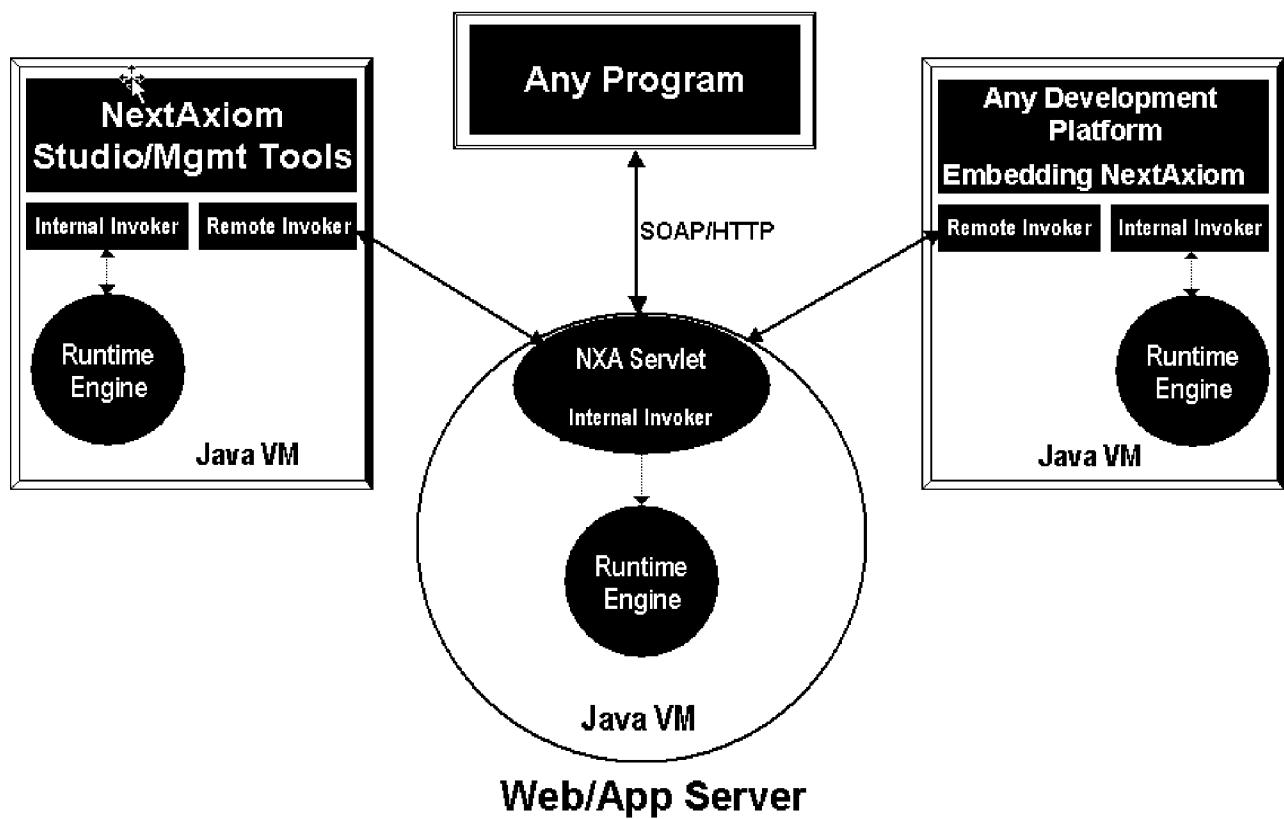


Figure 11: NextAxiom System Architecture



NextAxiom Technology, Inc.